

City of Newton, Massachusetts

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FLOOR AREA RATIO WORKSHEET

For Residential Structures in Single Family and Multi-Residence Districts

Floor area ratio, or FAR, regulates the amount of gross floor area that can be built on a lot. It is the ratio of gross floor area of building(s) on a lot to lot size, or:

FAR = gross floor area of building(s) on a lot lot size

Newton's Zoning Ordinance sets out FAR limits for residential structures and describes what elements of a building are included in gross floor area.

In February 2011, the Board of Aldermen adopted changes to the FAR regulations for residential structures in residential zoning districts. These new regulations became effective on October 15, 2011. The Board has requested that, for the months immediately preceding and following the date at which the new regulations become effective, the Inspectional Services and Planning departments gather data on FAR calculations under the old and new regulations. This worksheet and accompanying information describes what information is needed.

Please use the worksheet on page 2 to calculate the FAR of your project and to enter the FAR limit for your lot. All entries should be made in square feet. Instructions for calculating specific features are included on pages 2 and 3.

FAR Worksheet Areas in Square Feet

Property address: _____150 Countryside Road, Newton, MA 02459-2941

				FAR Calculations for		
	FAR Calculations Effective Before October 15, 20	Regulations Effective As Of October 15, 2011				
	Inputs			Inputs		
1.	First story	2,153	1.	First story	2,153	
2.	Attached garage	461	2.	Attached garage	461	
3.	Second story	2,386	3.	Second story	2,386	
4.	Atria, open wells, and other vertical spaces	incld	4 .	Atria, open wells, and other vertical spaces	incld	
5.	Floor area above the second story if it is more than 2/3 the floor area of the story directly		5.	Certain floor area above the second story ^{1b}		
	below (otherwise "0")	0			1,588	
6.	Enclosed porches if heated (otherwise "0")	0	6.	Enclosed porches ^{2b}	214	
			7.	Mass below first story ^{3b}	272	
			8.	Detached garage	0	
			9.	Area above detached garages with a		
				ceiling height of 7' or greater	0	
			10.	Other detached accessory buildings (one		
				detached building up to 120 sq. ft. is		
				exempt)	0	
	FAR of Proposed Structure(s)			FAR of Proposed Structure(s)		
A.	Total gross floor area		A.	Total gross floor area		
	(sum of rows 1-6 above)	5,000		(sum of rows 1-9 above)	7,074	
В.	Lot size 2	5,000	B.	Lot size	25,000	
C.	FAR = A/B	. 2	C.	FAR = A/B	.283	
Allowed FAR				Allowed FAR		
Allowed FAR SR1=.2 or .25 depending on age of lot SR2=.3			S	ee attached table of Allowable FAR		
SR3=.35		.2			.26	
MR1, 2, 3=.4				5 00 15 11 11 4h		
Bonus of .02 to .07 if eligible ^{1a}		0 . 2		onus of .02 if eligible ^{4b}	0	
TOTAL Allowed FAR (add two rows above)			T	OTAL Allowed FAR (add two rows above)	.26	

Calculation Instructions

Notes for ALL calculations:

- **General:** Calculations should be made within the perimeter of outside walls of a building without deduction for hallways, stairs, closets, thickness of walls, columns, atria, open wells and other vertical open spaces or other features.
- First/second story: Exclude from the calculation bays or bay windows that are cantilevered, do not have foundations, and that occupy 10 percent or less of the wall area on which they are mounted.
- Atria: Atria, open wells, and other vertical open spaces are calculated by multiplying the floor level area of such space by a factor equal to the average height in feet divided by 10.

Notes to calculate FAR under pre-October 15th regulations ONLY:

1a: Bonus: The following FAR bonuses are available under the current FAR regulations:

Project Type	Lot Type		
Addition to existing home	New (created on or a	.05	
that is 10 or more years old	Old (created before Dec. 7, 1953)	Conforms to old lot setback requirements	.05
		Conforms to new setbacks or does not	.07
		extend further into setback	
Addition to recently built	Any	None	
home (less than 10 years old)			
Construction of new home	New	None	
	Old	Conforms to "new lot" setback and lot	.05
		coverage requirements and "old lot" open	
		space requirement	

Notes for new FAR calculations ONLY:

- **1b:** Area above the second story: Include in the calculation for FAR any area that meets the following criteria:
 - Lies below the area of a horizontal plane that is 5' above it and which touches the side walls and/or the underside of the roof rafters;
 - Is at least 7' in any horizontal dimension as measured with in the area having a wall height of at least 5' or more:
 - Has a minimum ceiling height of 7' on at least 50 percent of its required floor area; AND
 - Has a floor area of not less than 70 sq. ft. as measured within the floor area having a wall height of 5' or more.
- **2b: Porch:** A porch is considered enclosed if it is enclosed for any portion of the year by impermeable materials such as glass. Porches are roofed structures with sides not more than 60% enclosed by impermeable walls and railings or solid walls no higher than 36" high from the finished floor; are attached to and accessible from the primary structure; and are not heated or air conditioned.
- **3b: Mass below first story**: Mass below first story includes any cellar, crawl space, basement, or other area lying directly below a first story. The portion that is included in FAR is the LESSER OF:
 - 50% of the floor area of mass below first story OR

- $X/Y \times floor$ area of mass below first story, X=25.75' Y= 209.66' Floor area = 2,216SF 25.75'/209.66' X 2,216 sf= 12.28% X 2,216 sf= 272.16 sf Where:

X= Sum of the width of those sections of exposed walls below the first story having an exterior height equal to or greater than 4' as measured from existing or proposed grade, whichever is lower, to the top of the subfloor of the first story

Y= Perimeter of exterior walls below first story

4b: Bonus: An FAR bonus of .02 is available for those seeking to build on old lots (lots created before December 7, 1953) if new construction is built to comply with "new lot" setback standards and that nonconformities with respect to open space or lot coverage are not created or increased.

Allowable FAR (as of October 15, 2011) One- and Two-Family Residences in Residential Districts *Does not include .02 FAR bonus if eligible

SR1		SR	2	SR3		
Lot Size (sq. ft.)	Allowable FAR*	Lot Size (sq. ft.)	Allowable FAR*	Lot Size (sq. ft.)	Allowable FAR*	
<= 5,333	.46	<= 5,333	.46	<= 7,217	.48	
5,334-6,000	.45	5,334-6,000	.45	7,218-7,652	.47	
6,001-6,666	.44	6,001-6,666	.44	7,653-8,086	.46	
6,667-7,151	.43	6,667-7,294	.43	8,087-8,521	.45	
7,152-7,454	.42	7,295-7,882	.42	8,522-8,956	.44	
7,455-7,757	.41	7,883-8,470	.41	8,957-9,391	.43	
7,758-8,060	.40	8,471-9,058	.40	9,392-9,826	.42	
8,061-8,363	.39	9,059-9,647	.39	9,827-10,833	.41	
8,364-8,666	.38	9,648-10,500	.38	10,834-12,499	.40	
8,667-8,969	.37	10,501-11,500	.37	12,500-14,166	.39	
8,970-9,272	.36	11,501-12,500	.36	14,167-21,250	.38	
9,273-9,575	.35	12,501-13,500	.35	21,251-23,750	.37	
9,576-9,878	.34	13,501-14,500	.34	23,751 and above	.36	
9,879-11,250	.33	14,501 and above	.33			
11,251-13,750	.32					
13,751-15,833	.31					
15,834-17,500	.30					
17,501-19,166	.29					
19,167-21,250	.28					
21,251-23,750	.27					
23,751 and above	<mark>.26</mark>					

MR	1	MR2/MR3		
Lot Size (sq. ft.)	Allowable FAR*	Lot Size (sq. ft.)	Allowable FAR*	
<= 5,199	.58	<= 5,199	.58	
5,200-5,599	.57	5,200-5,599	.57	
5,600-5,999	.56	5,600-5,999	.56	
6,000-6,399	.55	6,000-6,399	.55	
6,400-6,799	.54	6,400-6,799	.54	
6,800-7,294	.53	6,800-10,250	.53	
7,295-7,882	.52	10,251-10,750	.52	
7,883-8,470	.51	10,751-11,250	.51	
8,471-9,058	.50	11,251-11,750	.50	
9,059-9,647	.49	11,751-12,250	.49	
9,648-15,500	.48	12,251-12,750	.48	
15,501-16,500	.47	12,751-13,250	.47	
16,501-17,500	.46	13,251-13,750	.46	
17,501-18,500	.45	13,751-14,250	.45	
18,501-19,500	.44	14,251-14,750	.44	
19,501-20,500	.43	14,751-15,500	.43	
20,501-21,500	.42	15,501-16,500	.42	
21,501-22,500	.41	16,501-17,500	.41	
22,501-23,500	.40	17,501-18,500	.40	
23,501-24,500	.39	18,501-19,500	.39	
24,501 and above	.38	19,501 and above	.38	